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CONFIDENTIAL **FIRE CAN RADAR** HANOI SAM SITE A22-2 (VN 263), NORTH VIETNAM

MISSION UE-7543, 18 MAY 1972

20-56-55N 105-47-51E



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25X1

NATIONAL PHOTOGRAPHIC





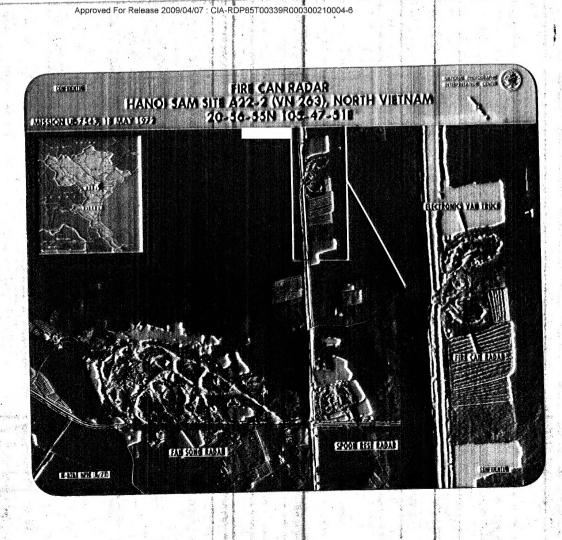
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REFERENCE TO: UE J7543

FIRE CAN RADAR AT HANOI SAM SITE A22-2 (VN 263) NORTH VIETNAM

1.	SIGNIFICANCE:	USE OF THE FIRE CAN RADAR WITH THE SA-2	
		SYSTEM IN NORTH VIETNAM TO PROVIDE AN	
		ELECTRONIC COUNTER-COUNTER MEASURE AGAINST	
		AIRCRAFT RADAR HOMING AND WARNING RECEIVERS.	•
2.	LOCATION:	NORTH VIETNAM SAM SITE A22-2 (VN 263)	
		IS LOCATED 5.8 NAUTICAL	25X1
		MILES SOUTH-SOUTHWEST OF HANOI AT	
	*	20-56-55N 105-47-51E.	
3•	BACKGROUND:	HANOI SAM SITE A22-2 WAS FIRST IDENTIFIED	
		ON PHOTOGRAPHY OF IT IS	25 X 1
		A CONVENTIONAL SITE CONTAINING SIX REVEITED	
		LAUNCH POSITIONS, A REVETTED GUIDANCE AREA,	
		AND A REVETTED ACQUISITION RADAR SITE. AN	
		ADDITIONAL RADAR SITE, CONSISTING OF TWO	(8)
	•	REVETMENTS WAS LOCATED 250 METERS (820 FEET)	
	,	SOUTHWEST OF THE SAM SITE.	

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4. REMARKS:

THE COLLOCATION OF A FIRE CAN RADAR AT A SAM SITE INDICATED THAT THE NORTH VIETNAMESE ARE PROBABLY USING THIS AAA FIRE CONTROL RADAR AS A TRACKING AID FOR THE SA-2 SYSTEM. USED IN THIS ROLE THE FIRE CAN SERVES AS AN ELECTRONIC COUNTER-COUNTER MEASURE (ECCM). RADAR HOMING AND WARNING (RHAW) RECEIVERS IN AIRCRAFT OPERATING OVER THE SAM SITE WILL NOT REGISTER INDICATIONS OF FAN SONG (SA-2) TRACKING. THIS IS PROBABLY DONE BY THE FIRE CAN ILLUMINATING A TARGET AND THE REFLECTED ENERGY BEING RECEIVED BY THE FAN SONG OPERATING PASSIVELY IN A LOBE-ON-RECEIVE-ONLY (LORO) MODE. MODIFICATION OF THE FIRE CAN PULSE REPETITION FREQUENCY (PRF) IS NECESSARY TO MAKE IT COMPATIBLE WITH THE FAN SONG PRF. THE FAN SONG CAN THEN TRACK A TARGET WITHOUT EMITTING CHARACTERISTIC

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4.	REMARKS:	(CONT'D)
→•	TITILITY .	CONT DI

TRACK WHILE SCAN (TWS) SIGNALS. THE FAN
SONG NEED ONLY BECOME AN ACTIVE EMITTER
AFTER MISSILE LAUNCH AND THEN ONLY FOR
MISSILE GUIDANCE. (SECRET)

5. MISSION READOUT:

PHOTOGRAPHY OF OVER HANOI SAM SITE

25X1

A22-2 SHOWED THAT THE SITE WAS OCCUPIED WITH SIX LAUNCHERS (FOUR WITH MISSILES), ONE FAN SONG F TARGET TRACKING/MISSILE GUIDANCE RADAR, AND A SPOON REST ACQUISITION RADAR.

A FIRE CAN AAA FIRE CONTROL RADAR WAS LOCATED IN THE RADAR REVETMENT APPROXIMATELY 250 METERS (820 FEET) SOUTHWEST OF THE SITE. A SEPARATELY REVETTED COMMUNICATIONS/ELECTRONICS VAN TRUCK AND A GENERATOR TRAILER WERE ADJACENT TO THE FIRE CAN. THERE WERE NO AAA WEAPONS DISCERNIBLE IN THE VICINITY. NO CABLE WAS DISCERNIBLE BETWEEN THE FIRE CAN AND THE SA-2 SITE.

25X1

ENLARGEMENTS

: 12X, INSET (30X)

IEG/SGD/SAB

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